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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Original) A composition comprising a pharmaceutically acceptable particle and a stable HIV-1 pre-fusion envelope glycoprotein trimeric complex operably affixed thereto, each monomeric unit of the complex comprising HIV-1 gp120 and HIV-1 gp41, wherein (i) the gp120 and gp41 are bound to each other by at least one disulfide bond between a cysteine residue introduced into the gp120 and a cysteine residue introduced into the gp41, and (ii) the gp120 has deleted from it at least one V-loop present in wild-type HIV-1 gp120.
- 2. (Original) The composition of claim 1, wherein the stable HIV-1 pre-fusion envelope glycoprotein trimeric complex is operably affixed to the particle via an agent which is operably affixed to the particle.
- 3. (Original) The composition of claim 1, further comprising a pharmaceutically acceptable carrier.
- 4. (Original) The composition of claim 1, further comprising an adjuvant.
- 5. (Original) The composition of claim 1, wherein the gp120 has deleted from it one or more of variable loops V1, V2 and V3.

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- 6. (Original) The composition of claim 1, wherein the disulfide bond is formed between a cysteine residue introduced by an A492C mutation in gp120 and a cysteine residue introduced by a T596C mutation in gp41.
- 7. (Original) The composition of claim 1, wherein the gp120 is further characterized by (i) the absence of one or more canonical glycosylation sites present in wild-type HIV-1 gp120, and/or (ii) the presence of one or more canonical glycosylation sites absent in wild-type HIV-1 gp120.
 - 8. (Original) The composition of claim 1, wherein the particle is selected from the group consisting of a paramagnetic bead, a non-paramagnetic bead, a liposome and any combination thereof.
 - 9. (Original) The composition of claim 1, wherein the particle comprises PLG, latex, polystyrene, polymethyl-methacrylate, or any combination thereof.
 - 10. (Original) The composition of claim 1, wherein the mean diameter of the particle is from about 10nm to $100\mu m$.
 - 11. (Original) The composition of claim 10, wherein the mean diameter of the particle is from about 100nm to $10\mu m$.
 - 12. (Original) The composition of claim 10, wherein the mean diameter of the particle is from about 100nm to $1\mu m\,.$
 - 13. (Original) The composition of claim 10, wherein the mean diameter of the particle is from about $1\mu m$ to $10\mu m$.

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- 14. (Original) The composition of claim 10, wherein the mean diameter of the particle is from about 10 µm to 100 µm.
- 15. (Original) The composition of claim 1, wherein the mean diameter of the particle is from about 10nm to 100nm.
- 16. (Original) The composition of claim 1, wherein the mean diameter of the particle is about 50nm.
- 17. (Original) The composition of claim 2, wherein the agent is selected from the group consisting of an antibody, a fusion protein, streptavidin, avidin, a lectin, and a receptor.
- 18. (Original) The composition of claim 2, wherein the agent is ${\sf CD4}$.
- 19. (Original) The composition of claim 17, wherein the agent is an antibody.
- 20. (Original) The composition of claim 4, wherein the adjuvant is selected from the group consisting of alum, Freund's incomplete adjuvant, saponin, Quil A, QS-21, Ribi Detox, monophosphoryl lipid A, a CpG oligonucleotide, CRL-1005, L-121, and any combination thereof.
- 21. (Original) The composition of claim 3, further comprising a cytokine and/or a chemokine.
- 22. (Original) The composition of claim 21, wherein the cytokine is selected from the group consisting of interleukin-2, interleukin-4, interleukin-5, interleukin-12, interleukin-15, interleukin-18, GM-CSF, and any combination thereof.

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23. (Original) The composition of claim 21, wherein the chemokine is selected from the group consisting of SLC, ELC, Mip3 α , Mip3 β , IP-10, MIG, and any combination thereof.

24. (Original) A method for eliciting an immune response in a subject against HIV-1 or an HIV-1-infected cell comprising administering to the subject a prophylactically or therapeutically effective amount of the composition of claim 1.

25-27. (Canceled)

- 28. (Original) A vaccine which comprises a therapeutically effective amount of the composition of claim 1 and a pharmaceutically acceptable carrier.
- 29. (Original) A vaccine which comprises a prophylactically effective amount of the composition of claim 1 and a pharmaceutically acceptable carrier.
- 30. (Original) A method for preventing a subject from becoming infected with HIV-1 comprising administering to the subject a prophylactically effective amount of the composition of claim 1, thereby preventing the subject from becoming infected with HIV-1.
- 31. (Original) A method for reducing the likelihood of a subject's becoming infected with HIV-1 comprising administering to the subject a prophylactically effective amount of the composition of claim 1, thereby reducing the likelihood of the subject's becoming infected with HIV-1.

32-33. (Canceled)

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(Original) A method for producing the composition of claim 1, comprising contacting a pharmaceutically acceptable stable HIV-1 pre-fusion particle with glycoprotein trimeric complex under conditions permitting the complex to become operably affixed to the particle, wherein each monomeric unit of the complex comprises HIV-1 gp120 and HIV-1 gp41, (i) the gp120 and gp41 being bound to each other by at least one disulfide bond between a cysteine residue introduced into the gp120 and a cysteine residue introduced into the gp41, and (ii) the gp120 having deleted from it at least one V-loop present in wild-type HIV-1 gp120.

35-73. (Canceled)